Journal of Medical Systems

Volume 23, Number 1 **February 1999**

CONTENTS

ARTICLES

An Overhead Specimen Handling System for Variable Workloads 1
Arthur A. Eggert, Karen L. Bowers, Gary J. Smulka, Kenneth A. Emmerich, Anita L. Iwanski, and Elsa F. Quam

An Intranet-based System for Quality Assurance in Surgery 13
M. Dugas, J. Scheichenzuber, and H. Hornung

Monitoring Changes in Home Health Care: A Comparison of Two National Surveys 21
Ross M. Mullner, Mark A. Jewell, and Murray A. Mease

PC Controlled Toothbrush/Dentifrice Abrasion Machine 27
Güngör Bal, Sadullah Üçtaşli, and Erdal Bekiroğlu

A New Approach to Computer Guidance in Orthopedic Surgery Using Real Time Volume Rendering 35
U. C. Liener, C. Reinhart, L. Kinzl, and F. Gebhard

The Rate and Risk of Heat-Related Illness in Hospital Emergency Departments During the 1995 Chicago Heat Disaster 41
Robert J. Rydman, Dino P. Rumoro, Julio C. Silva, Teresita M. Hogan, and Linda M. Kampe

Estimating Hospital Inefficiency: Does Case Mix Matter? 57
Michael D. Rosko and Jon A. Chilingerian

A Keyword Search System for Medical Doctors to Introduce Their Patients to Specialists 73
Eisuke Hanada, Kazuhiro Ise, Yasuaki Antoku, Kouji Matsumura, Yuko Kenjo, Misuzu Koga, Seizaburo Kashiwagi, and Yoshiaki Nose

Tissue Blood Flow Assessment of Pulsed Doppler Ultrasound Using Autoregressive Modeling 77
Ömer Faruk Bay and İnan Güler

Journal of Medical Systems

Volume 23, Number 2 **April 1999**

CONTENTS

ARTICLES

Trends in Hospital Efficiency Among Metropolitan Markets 83
Bill Binglong Wang, Yasar A. Ozcan, Thomas T. H. Wan, and Jeff Harrison

International Maternal Mortality Reduction: Outcome of Traditional Birth Attendant Education and Intervention in Angola 99
Jeffrey Schaider, Samson Ngonyani, Stephen Tomlin, Robert Rydman, and Rebecca Roberts

Tele-Education in a Telemedicine Environment: Implications for Rural Health Care and Academic Medical Centers 107
Susan A. Zollo, Michael G. Kienzle, Zak Henshaw, Louis G. Crist, and Douglas S. Wakefield

Bringing Community Involvement into a Cretan Primary/Hospital Care Center: An Evaluation of Population Habits and Attitudes Toward Health Care 123
Marios Chatziarsenis, Christos Lionis, Eleni Makri, Kiki Sapouna, Michael Fioretos, Tomas Faresjö, Manolis Mavromanolakis, Jean Vlachonikolis, and Erik Trell

Medical Record Innovations that Can Improve Physician Productivity 133
Ralph R. Grams and Glen Morgan

Object-Oriented Analysis and Design of a Healthcare Management Information System 145
Marina Krol and David L. Reich

Information Subsystem of the Chemical Coefficients K_1 and K_2 as the Base for the Study of the Ecological Factors that Influence Human Health 159
Nives Štambuk-Giljanović and Berezina Matoković

Journal of Medical Systems

Volume 23, Number 3 June 1999

CONTENTS

Special Issue: Medical Outcomes Research and Practice, Part I
Guest Editors: Ross M. Mullner and Mark A. Jewell

The Medical Outcomes Mandate 171
Ross M. Mullner and Mark A. Jewell

ARTICLES
Data Sources and Measurement Issues

Secondary Data Bases and Their Use in Outcomes Research: A Review of the Area Resource File and the Healthcare Cost and Utilization Project 175
Andrea Erickson Best

Accessing Data from External Centralized Sources To Enhance Analysis of a Completed Clinical Trial 183
Mazen Abdellatif, Domenic J. Reda, David Williams, William C. Cushman, and Barry J. Materson

Standardizing the Definition and Measurement of Catheter-Related Infection in Home Care: A Proposed Outcome Measurement System 189
Donna L. Zimay

Using Department of Veterans Affairs Administrative Databases To Examine Long Term Care Utilization for Men and Women Veterans 201
Marylou Guihan, Frances M. Weaver, Diane C. Cowper, Tammy Nydam, and Scott Miskevics

Computer Applications

The Medical Database as a Tool for Improving Maternal/Infant Continuity of Care 219
Linda P. Miller, Benn Greenspan, and Jennifer S. Dowd

Developing a State Outcomes Monitoring System in Public Health Maternal and Child Health 227
Sharon Telleen

Computer Assisted Outcomes Research in Orthopedics: Total Joint Replacement 239
Chris Arslanian and Malcolm Bond

Using Administrative Databases for Outcomes Research: Select Examples from VA Health Services Research and Development 249
Diane C. Cowper, Denise M. Hynes, Joseph D. Kubal, and Patricia A. Murphy

Journal of Medical Systems

Volume 23, Number 4 August 1999

CONTENTS

Special Issue: Medical Outcomes Research and Practice, Part II
Guest Editors: Ross M. Mullner and Mark A. Jewell

ARTICLES

Outcomes Research in Medicine

Asthma Outcome Measures 261
Kevin D. Watkins

Comparison of Two Regimens of β-Adrenergics in Acute Asthma 269
Michael F. McDermott, Isam Nasr, Robert J. Rydman, Marco Cordero, Linda M. Kampe, Rebecca Lewis, Lauren Portman, Jeffrey Wajda, Michael Macuga, and Robert Buckley

Outcomes of Cataract Surgery: Implications for the Developing World 281
May Khadem

Outcomes Research in Mental Health

A Four Part Outcome Measurement System 291
Hal Mark

The Feasibility of Using Automated Data to Assess Guideline-Concordant Care for Schizophrenia 299
Teresa J. Hudson, Richard R. Owen, A. Elizabeth Lancaster, and Lynn Mason

Outcome of Case Management and Comprehensive Support Services Following Policy Changes in Mental Health Care Delivery 309
Robert J. Rydman, Dennis Trybus, Nikolai Butki, Linda M. Kampe, and James A. Marley

Health Policy Issues

The Current Quality of Health Plan Report Cards 325
Julie Kroll Letwat

Outcomes Research and Community Health Information Systems 335
Carl H. Slater

Journal of Medical Systems

Volume 23, Number 5 **October 1999**

CONTENTS

ARTICLES

Evaluating the Outcome of Two Teaching Methods of Breath Actuated Inhaler in an Inner City Asthma Clinic 349
Robert J. Rydman, Kathy Sonenthal, Lakshminarayana Tadimeti, Nikolai Butki, and Michael F. McDermott

A Pascal-Based Decision Support System Model for Diagnosis and Treatment Processes in Urology 357
Serdar Müldür and Inan Gülar

Consumer Opinions with Ancillary Hospital Services: Improving Service Delivery in Turkish Hospitals 363
Dilaver Tengilimoglu, Adnan Kisa, and Sophia F. Dziegielewski

New Approach to the Medical Information System for Quality Management in Patient Care: Development of Problem Mapping System 377
Yoshiyasu Okuhara, Yasuhiro Kitazoe, Yuichi Narita, Yukio Kurihara, Kimio Matsuura, Toshiji Saibara, Saburo Onishi, Atsushi Kagiyama, and Noriko Inaoka

Histopathologic Variants of Basal Cell Carcinoma Correlation with Sex, Age and Localization 389
Neira Puizina-Ivić, Berezina Matoković, Ivo Glunčić, Siniša Maslovara, and Jadranka Vela-Ljubić

The Public Health Care Planning Problem: A Case Study Using Geographic Information Systems 401
Sophie D. Lapierre, Justin A. Myrick, and Gail Russell

Letter to the Editor 419
Jan C. Semenza

Response to Letter to the Editor 423
Robert J. Rydman

Journal of Medical Systems

Volume 23, Number 6 **December 1999**

CONTENTS

ARTICLES

Problems and Our Solutions for Implementing Telemedicine Systems 425
Isao Nakajima, Yuhwsuke Sawada, Tsukasa Ashihara, and Yoshihiro Takashima

Introducing the Theme in a Qualitative Interview Using a Visual Starter 437
Birgitta Lorentzson and Erik Trell

Assessment of Psychosocial Work Environment in Primary Care-Development of a Questionnaire 447
Susan Wilhelmsson, Ingemar Åkerlind, Tomas Faresjö, and Anna-Christina Ek

Face and Contents Validity, and Feasibility of Healthometer: A Delphi Study 457
L. Spång, E. A. Thireos, C. Lionis, and E. Trell

Analysis of Integrated Healthcare Networks' Performance: A Contingency-Strategic Management Perspective 467
Blossom Y. J. Lin and Thomas T. H. Wan

The Relationship Between Business Process Re-engineering and Internet Usage: Survey of Acute Care Hospitals in the United States 487
Myron Hatcher